



Mac OS X 10.7 Lion

Running Lion in a Virtual Machine on any computer.

Installing Lion in a Virtual Machine. Using the IATKOS Distro.

By knightwise

For many years it has been a tradition, that if you wanted to play with Mac OS, you needed to get a mac. If you wanted to play with Windows, you needed a PC. A couple of years ago, that changed dramatically when Apple computers switched to the Intel architecture. From then on it was possible to run Windows on a Mac. More and more the architecture and design of the OSX operating system changed towards this great architecture to the point that its latest version **ONLY** works on Intel Macs. Time to take a good look at Apple's revolving doors who only seem to swing one way. Windows on a Mac : No Problem. OSX on PC hardware ? Never gonna happen. Luckily a couple of clever geeks started building

"Hackintosh" systems. With some high-tech tinkering and tweaking they were able to find special and tricky ways to run OSX on your PC hardware. But it required specific hardware, special drivers and quite a lot of hacking. Getting the thing working was far more important than actually **DOING** anything with the distribution you were using.

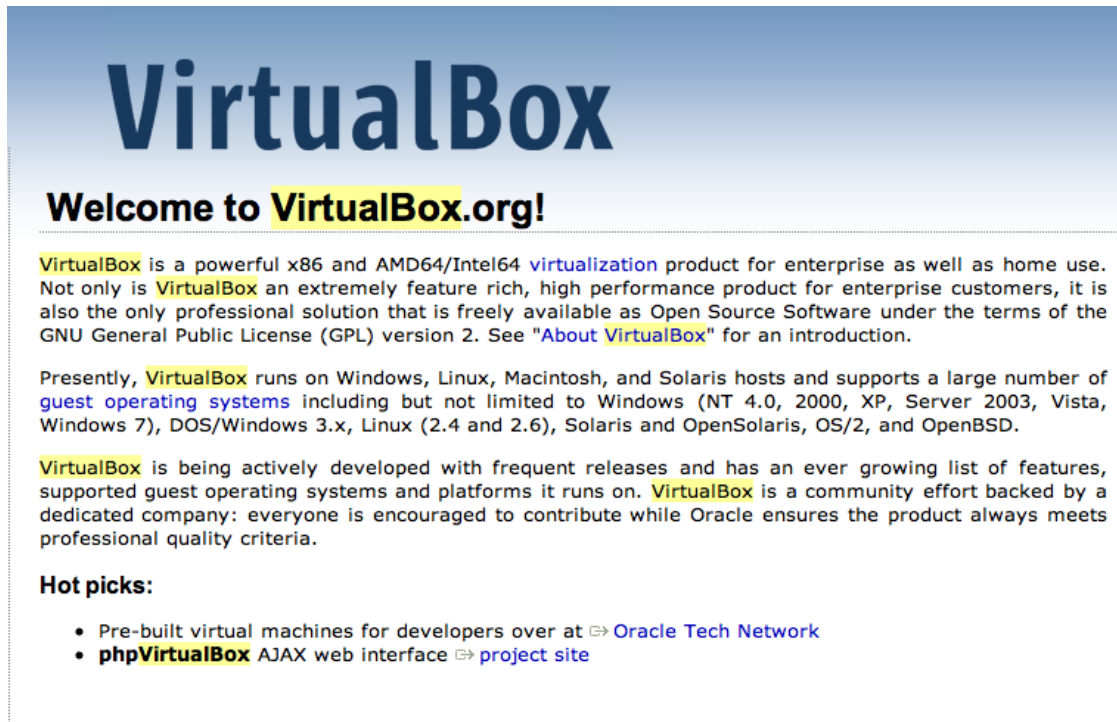
I dove down this path a couple of weeks ago in search of a central MAC in the house to use as an iTunes server. Because I did not have any Mac hardware to spare, I tried the Hackintosh distribution IATKOS. I tried and failed to get it working on a physical system, but I **DID** get it working inside a Virtualbox VM

on my Linux Server. So now I have a central, virtualized Mac, running in my network.

Iatkos is not a "legal" solution if you don't own a copy of Lion. (You can download it without having an official version of Lion, but that's not very neighborly of you). It also breaks Apple's rule that you are not allowed to run OSX on Non Apple Hardware. Whether you break these rules or not is your own prerogative. We don't encourage or condone your behavior, so you get to decide. Have fun with our little step by step guide on getting your IATKOS VM up and running using the free cross platform virtualisation solution **VIRTUALBOX**.

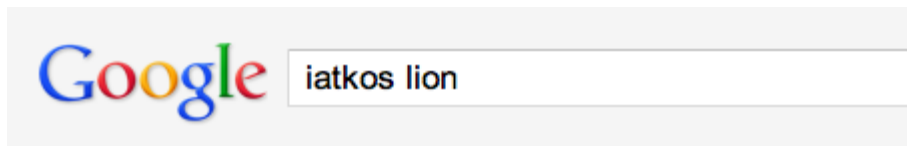
Installing a Hackintosh Virtual machine with latkos on Virtualbox.

Download and Install Virtualbox.



Head on over to www.virtualbox.org and download the correct version of Virtualbox for your operating system.

Download the IATKOS Hackingtosh distribution.



Due to legal reasons we cannot link directly to the latkos image. But the above image will show you what to look for in Google.

Burn the IATKOS Image to a Dvd.



Make sure to also check if the MD5 key checks out after the download.

Follow this link to find out how : <http://maketechesasier.com/how-to-check-md5-hash/2008/05/06>

Burn the dmg image to a blank 4.7GB DVD ($\pm R$, $\pm RW$) using Disk Utility or another burning application on OS X and then you are ready to boot with the DVD. If you are not on a mac , you will need to convert the DMG file to an ISO first.

If you are not on a mac but still want to burn the DMG to a disk,

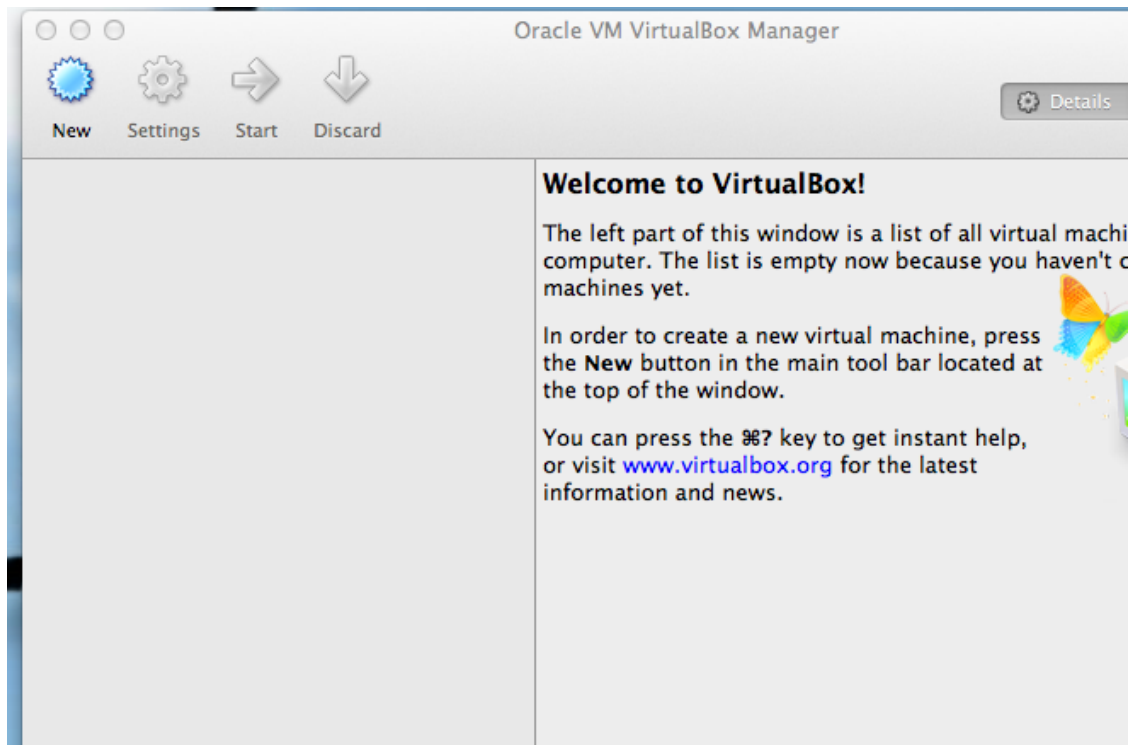
On windows : <http://www.crystalidea.com/dmg-to-iso-converter-convert-dmg-to-iso>

On Ubuntu : http://www.acetoneteam.org/viewpage.php?page_id=7

Burn at the lowest possible speed

Use a new, non rewritable blanc Dvd

Open Up Virtualbox.



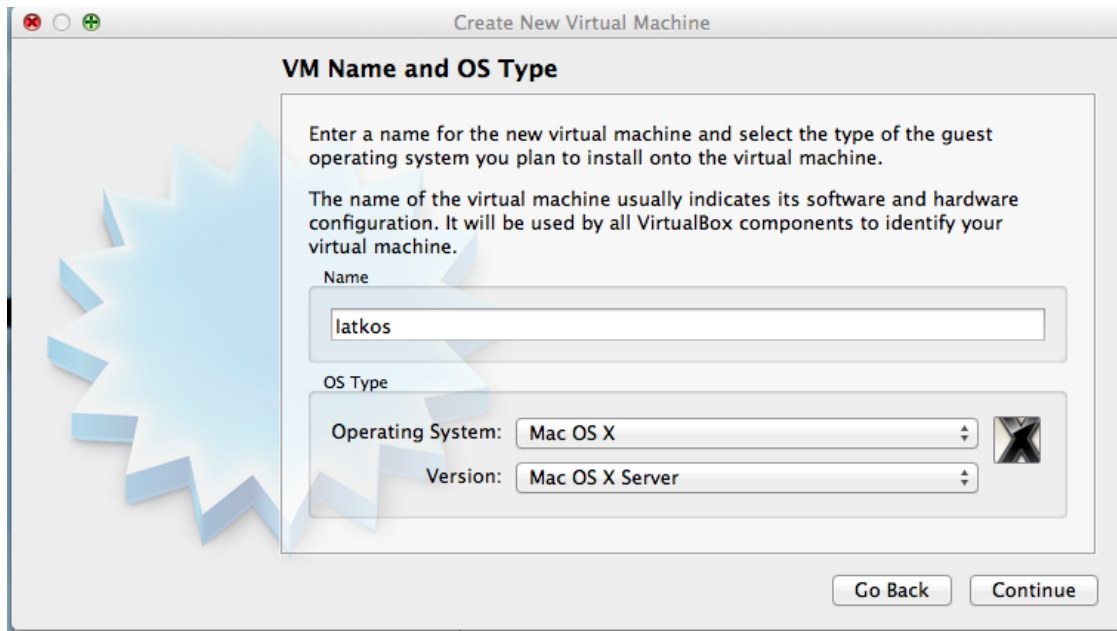
Open Virtualbox and select "New VM"

Set up the correct parameters.



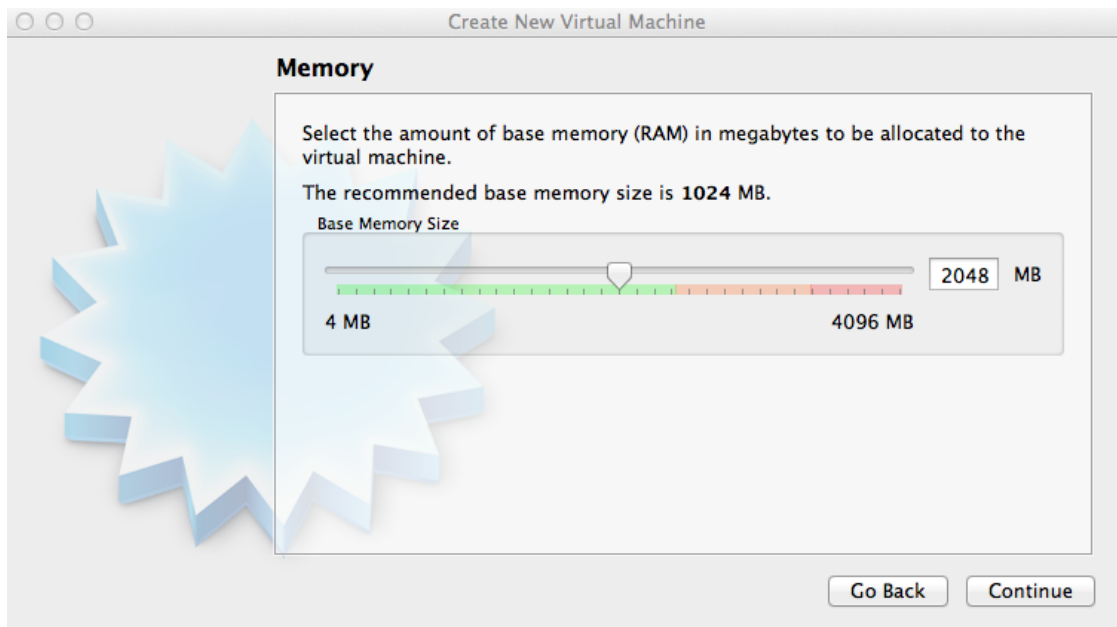
Click Continue.

Set up the correct parameters.



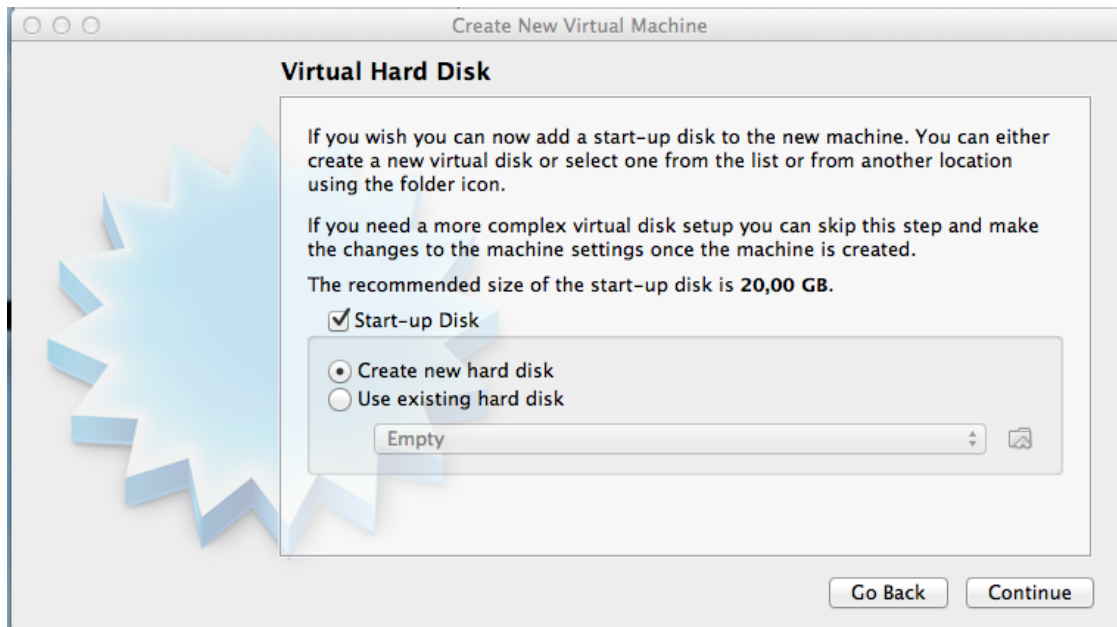
Give the VM a name and select OSX Server.

Set up the correct parameters.



Give the VM AT LEAST 2 gigabytes of ram. Preferably 4 gigabytes of ram.
Hit Continue

Set up the correct parameters.



Select 'create new disk'
Hit Continue.

Set up the correct parameters.



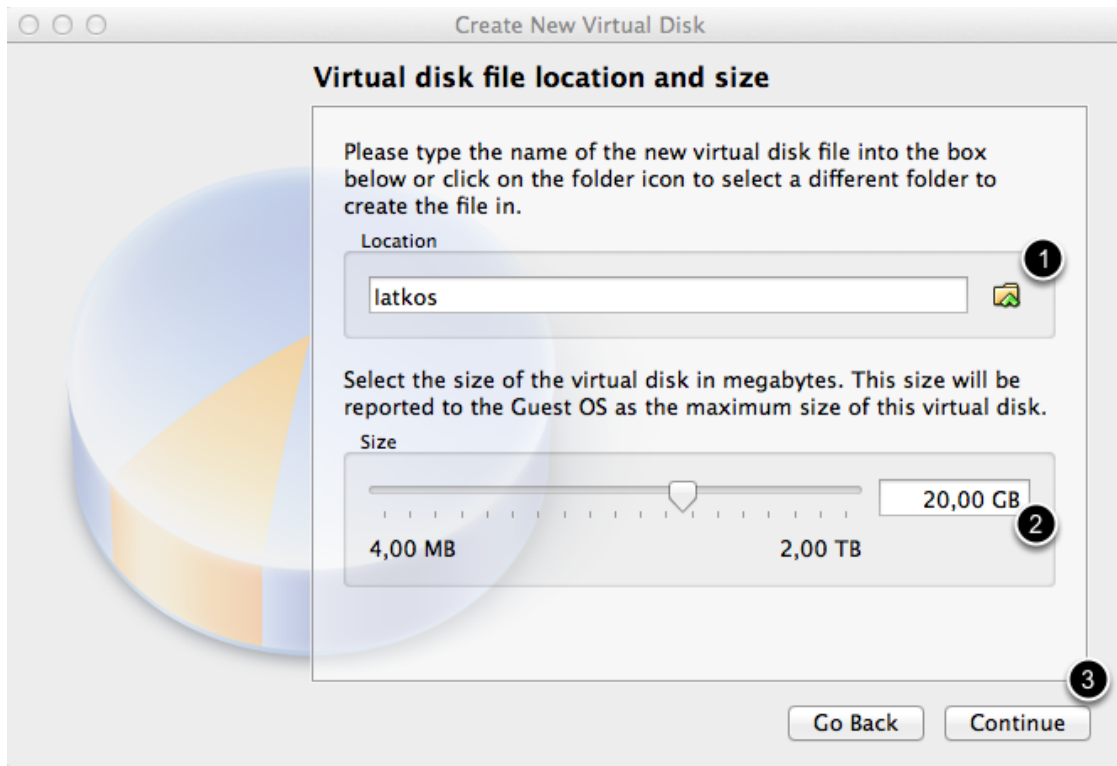
Select the VDI option.

Set up correct parameters.



Choose the FIXED size option. (you can go for the dynamic size but this wil slow down the vm)
Click CONTINUE.

Set up the correct parameters.

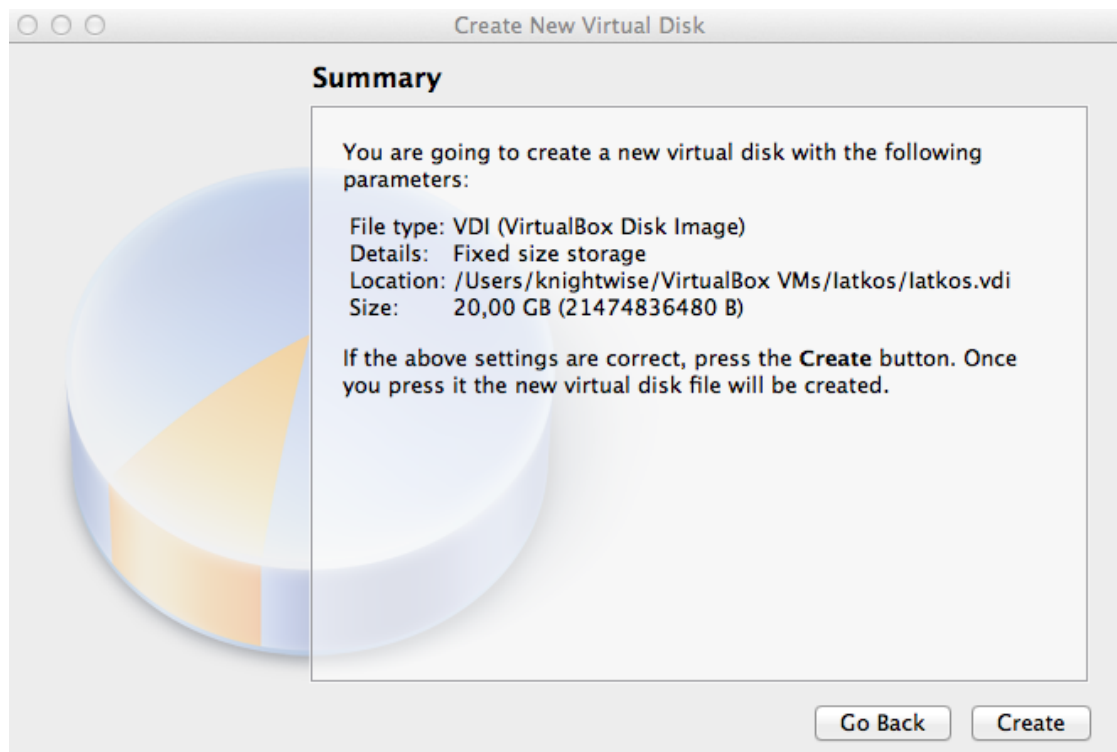


Using the icon (1) you can browse to the correct folder where you want to store the Virtual Hard Disk file.

Set the size of your system drive (2) to something between 20 to 120 gigabytes depending on your wish. This will be the SYSTEM drive , we will add a second virtual hard disk later to use as a data partition.

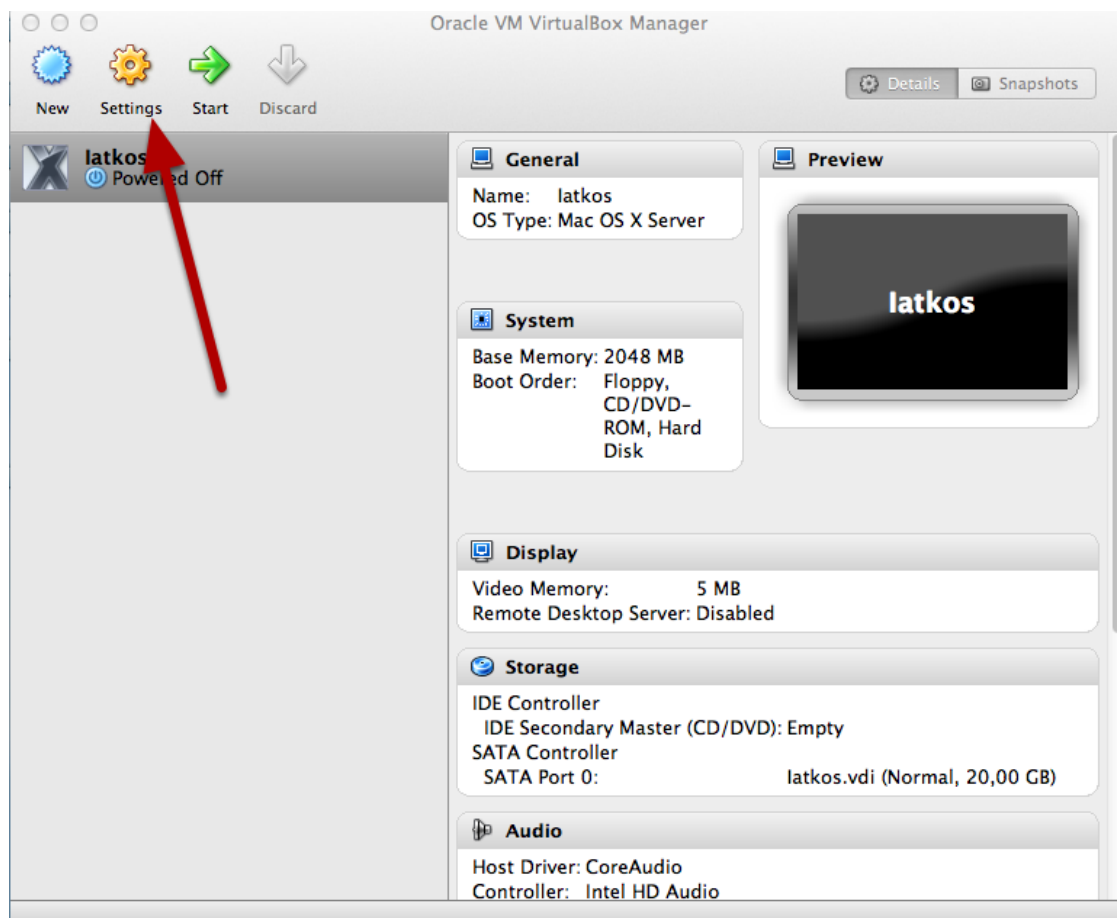
Click continue (3)

Set up the correct parameters.



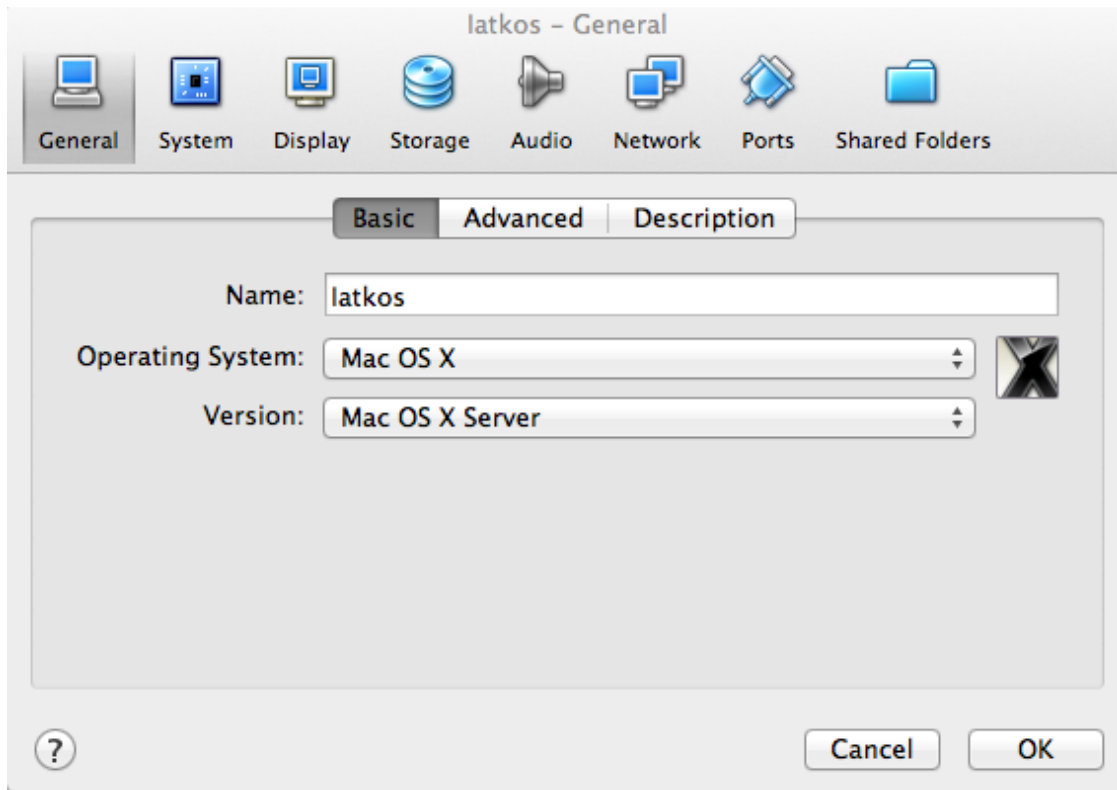
Check the summary and choose create.

Configure the Virtual Machine.



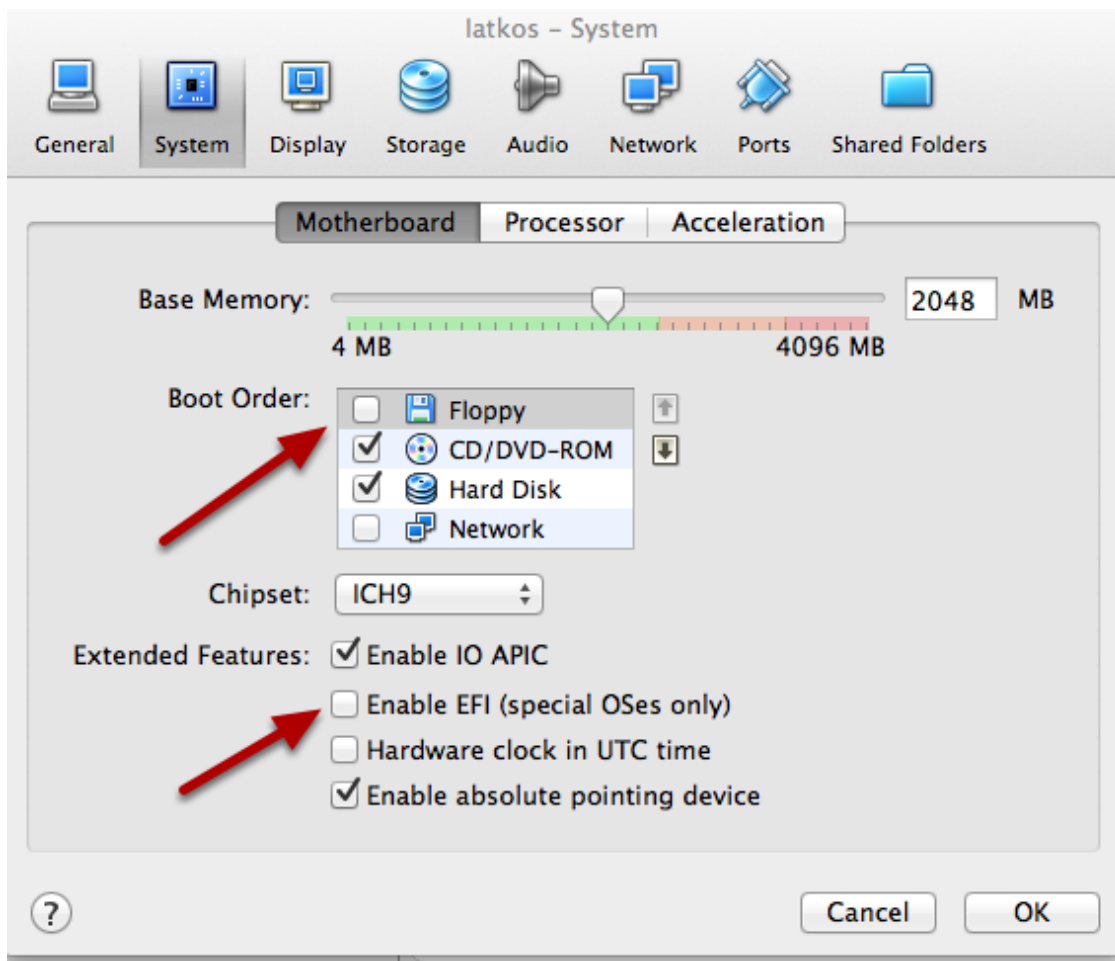
Click on the virtual machine and choose "Settings"

Configure the virtual machine.



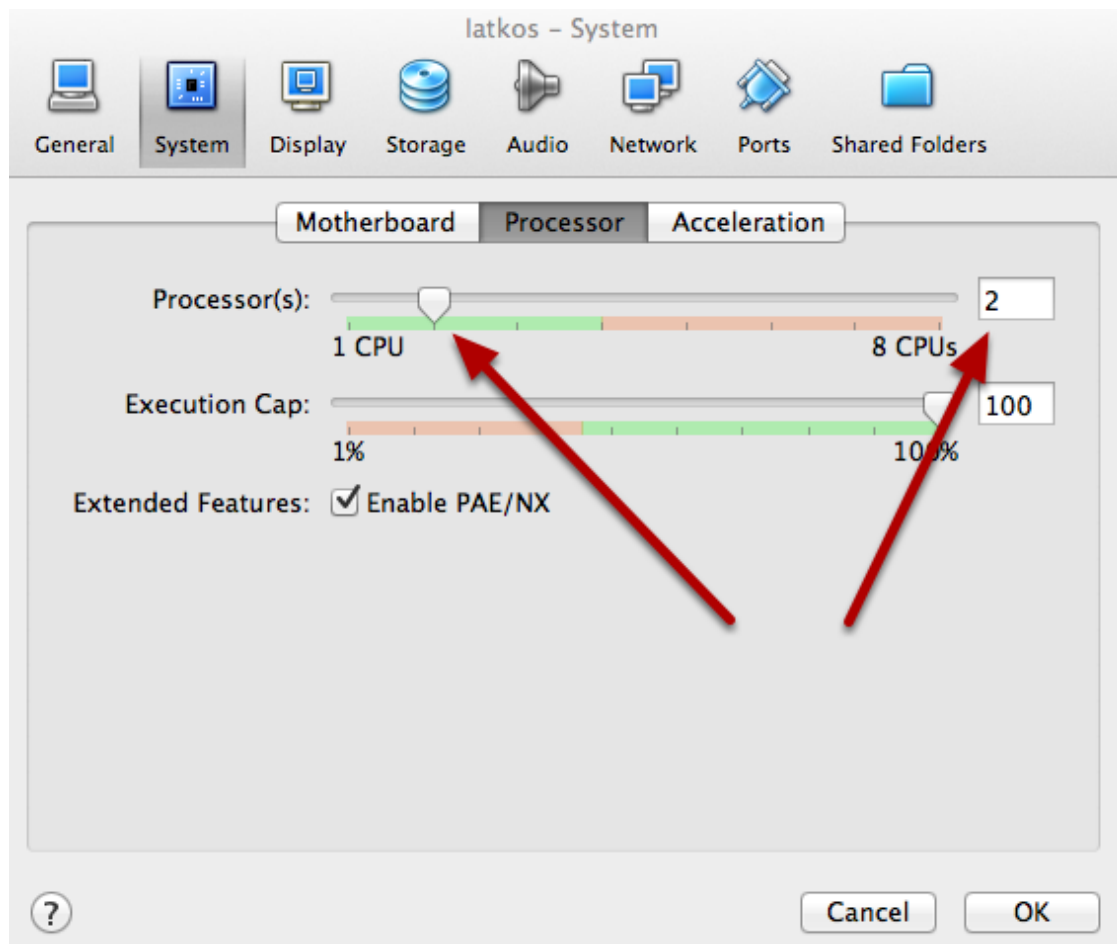
Adjust the settings as mentioned above.

Configure the Virtual Machine.



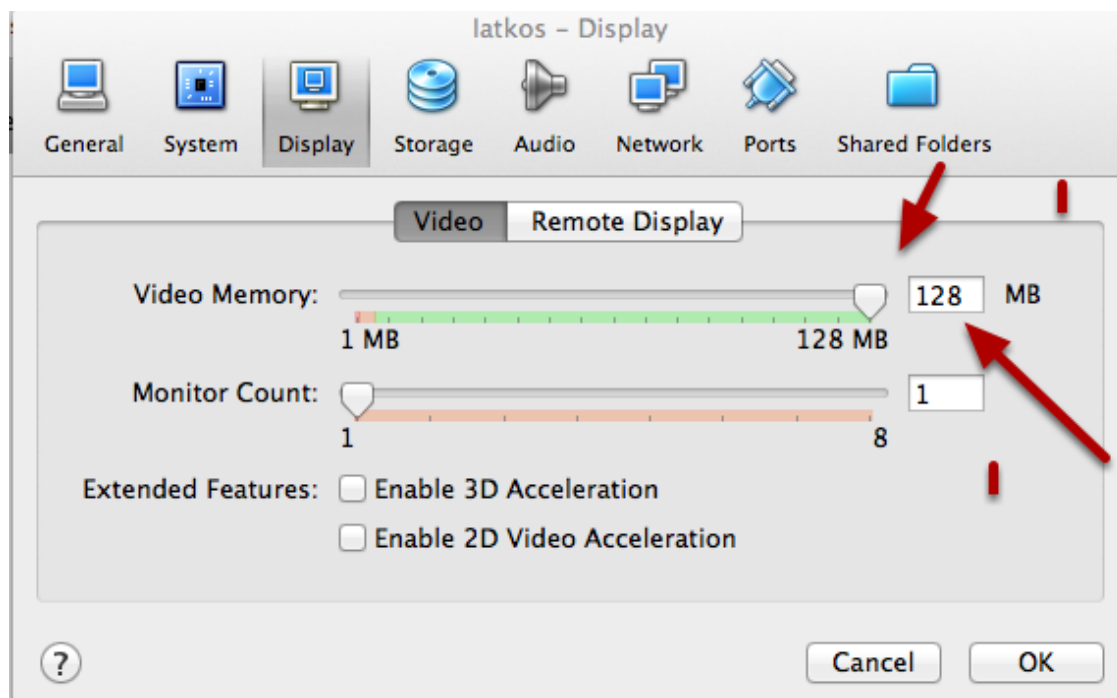
Match the settings above. (make sure to UNcheck the options behind the arrows)

Configure the Virtual Machine.



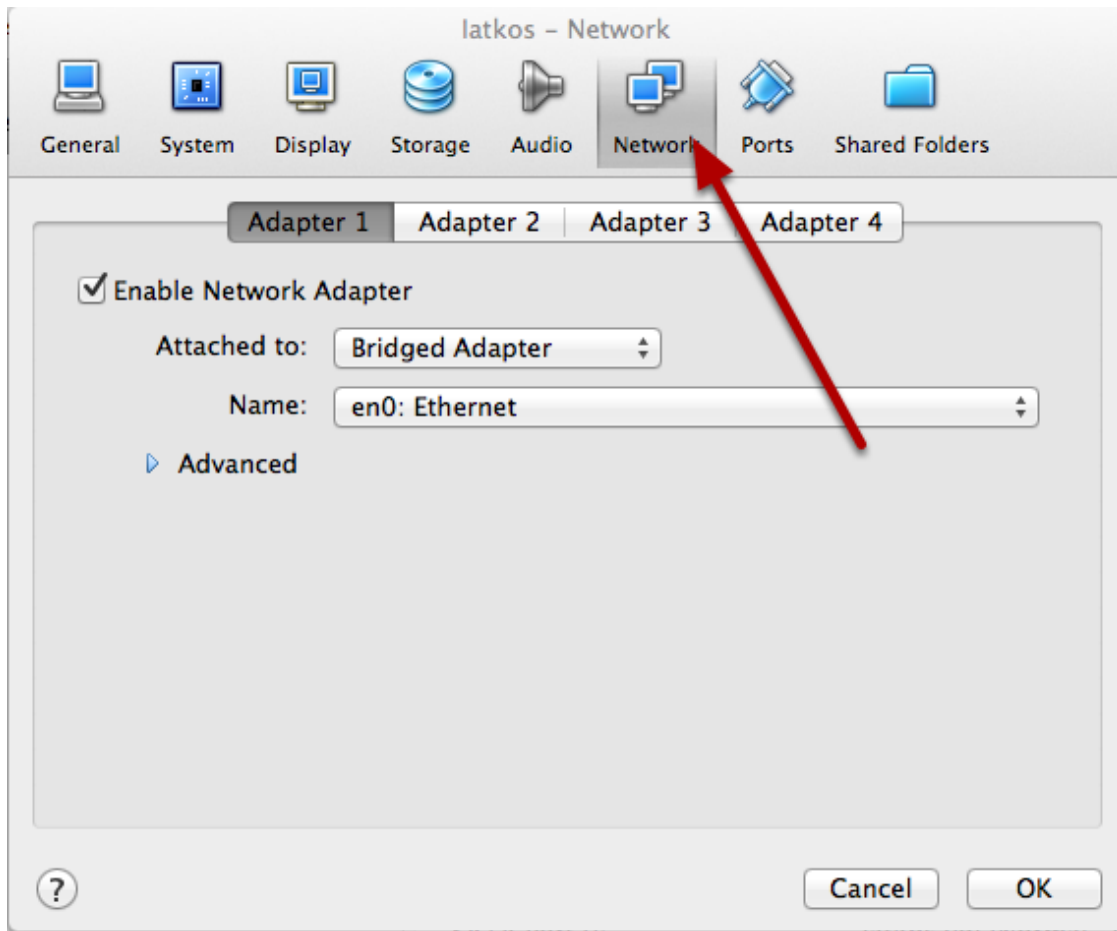
Match the settings as shown above.

Configure the Virtual Machine.



Match the settings as shown above.

Configure the Virtual Machine.

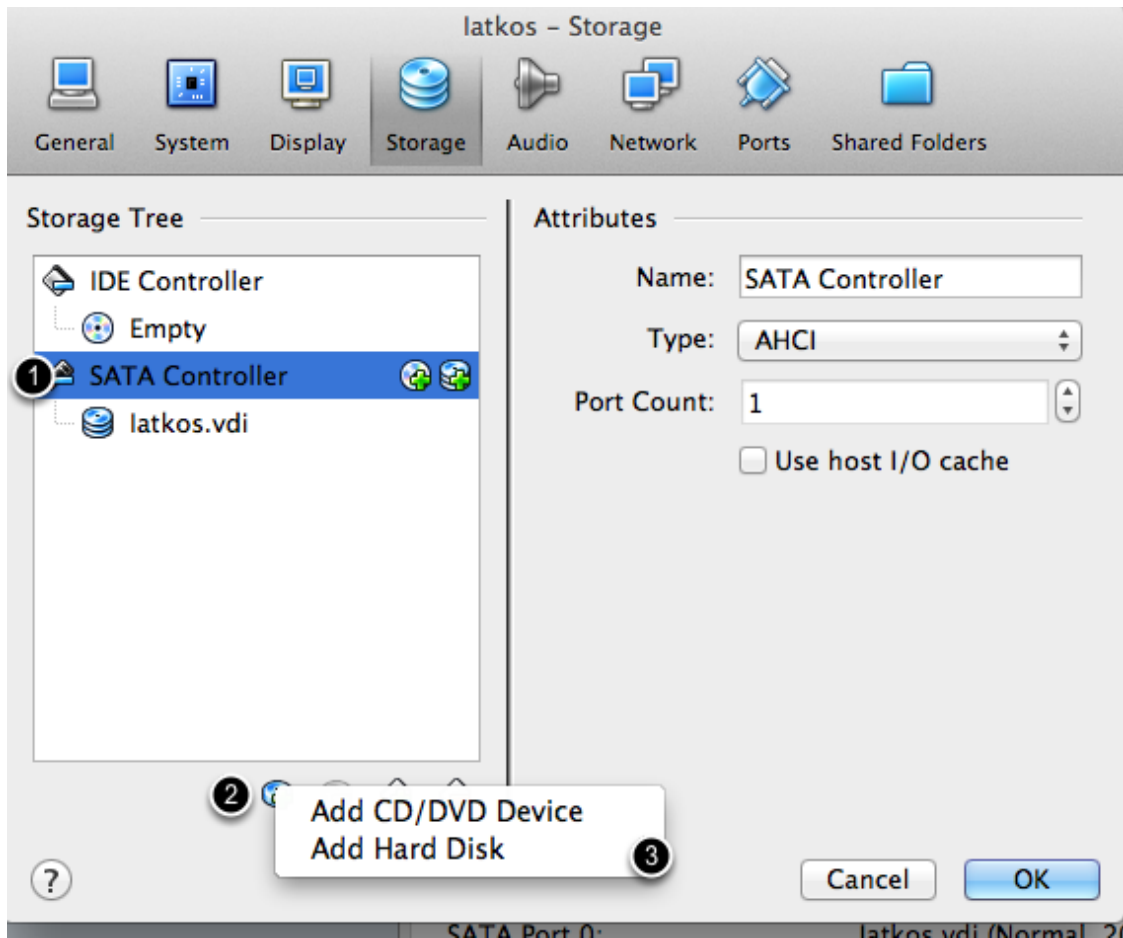


Choose how you would like to configure your Lion VM in your network.

If you want to play around with it choose NAT (your host machine wil play 'router' to the virtual network created by virtualbox and your LionVM will get an IP on a seperate network).

If you want to use your Virtual Lion "side by side" with your other machines on the network choose "bridged mode"

Configure the virtual machine.

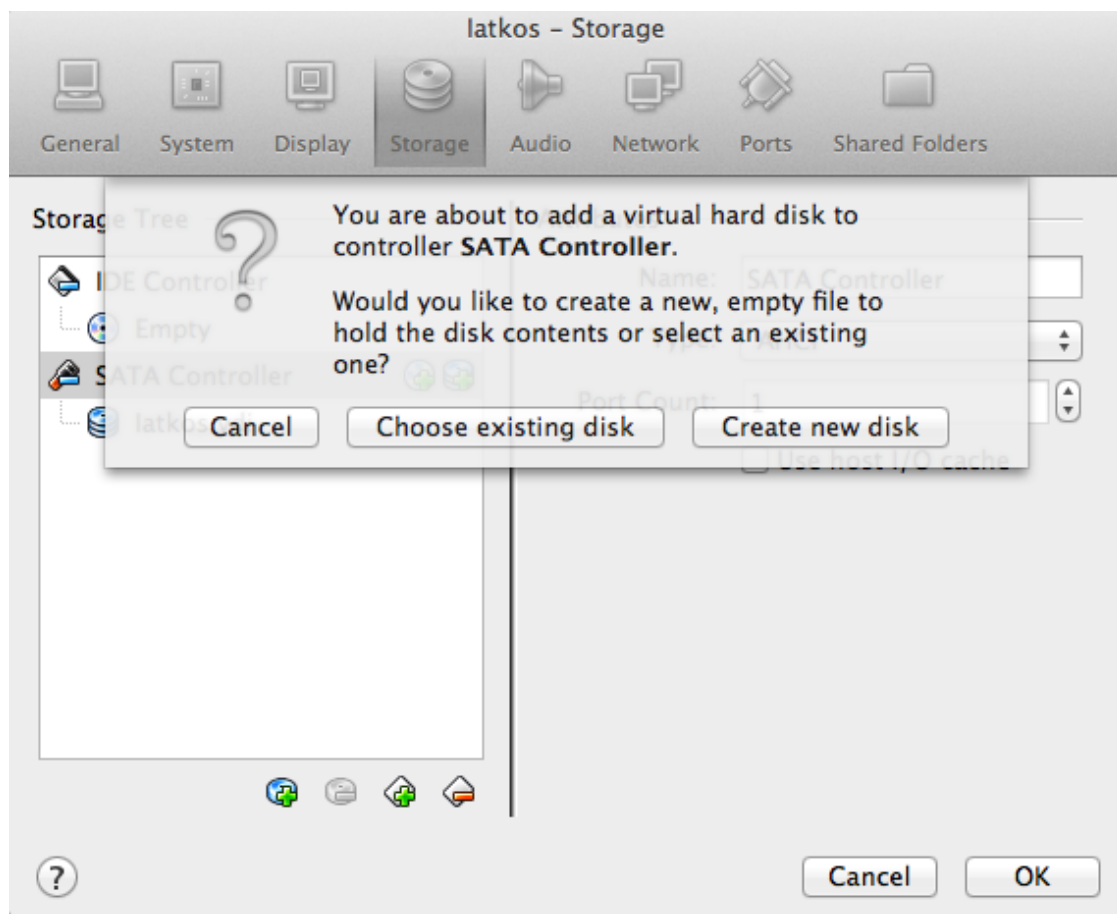


First we will set up an extra data partition to add to your Virtual Machine.

That way you can store your data in a separate Virtual Hard Disk and "swap out" this partition with other Virtual machines should you need to.

- (1) Select the SATA controller
- (2) Click on the + sign.
- (3) Choose the option to "add a hard disk" and click OK.

Configure the virtual Machine.



Choose the option 'create new disk'

Configure the Virtual Machine.



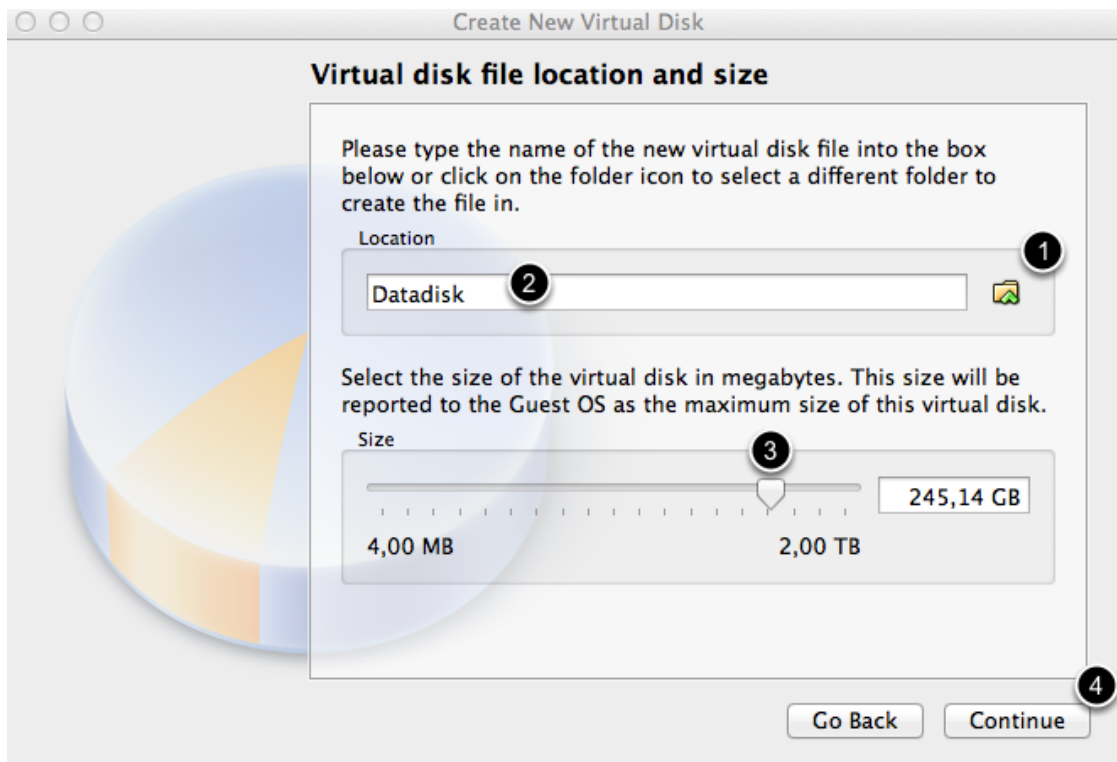
Select the option vdi.

Configure the Virtual Machine.



Select Fixed Size.

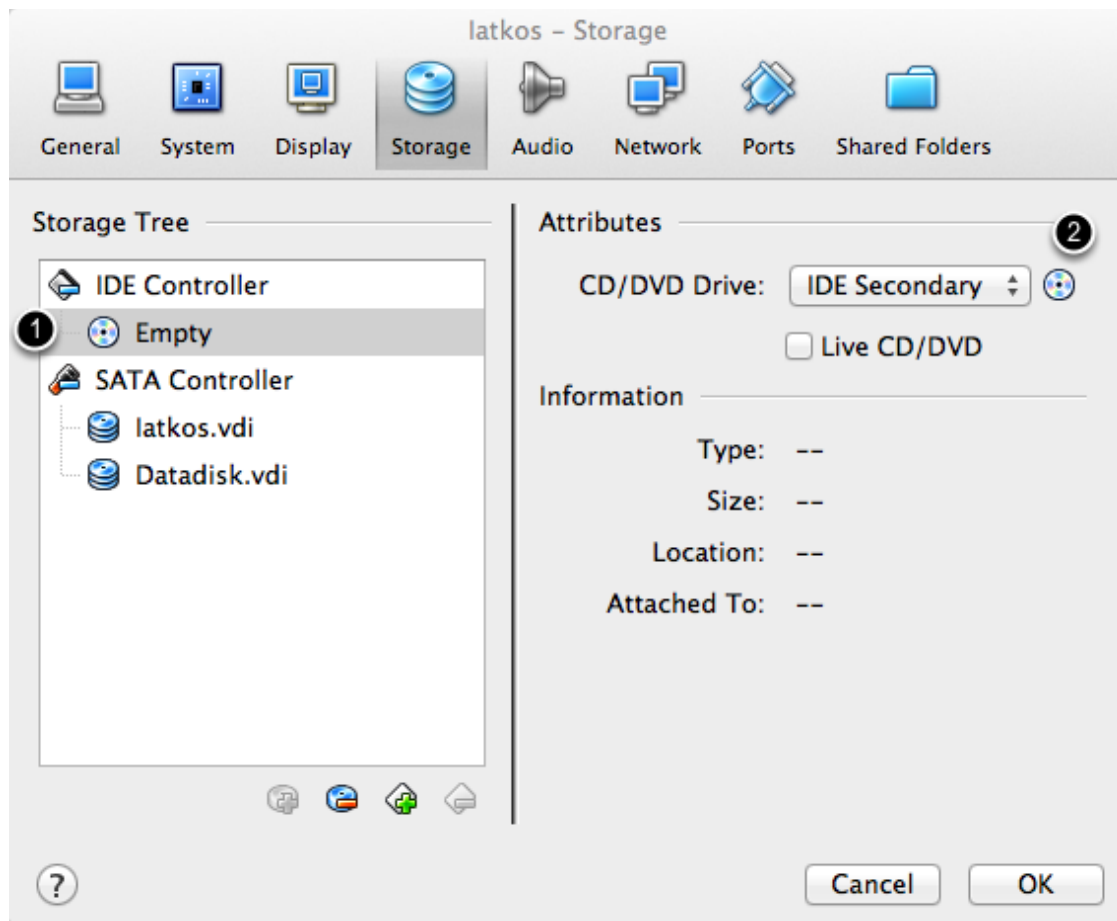
Configure the Virtual Machine.



Just like with the system disk.

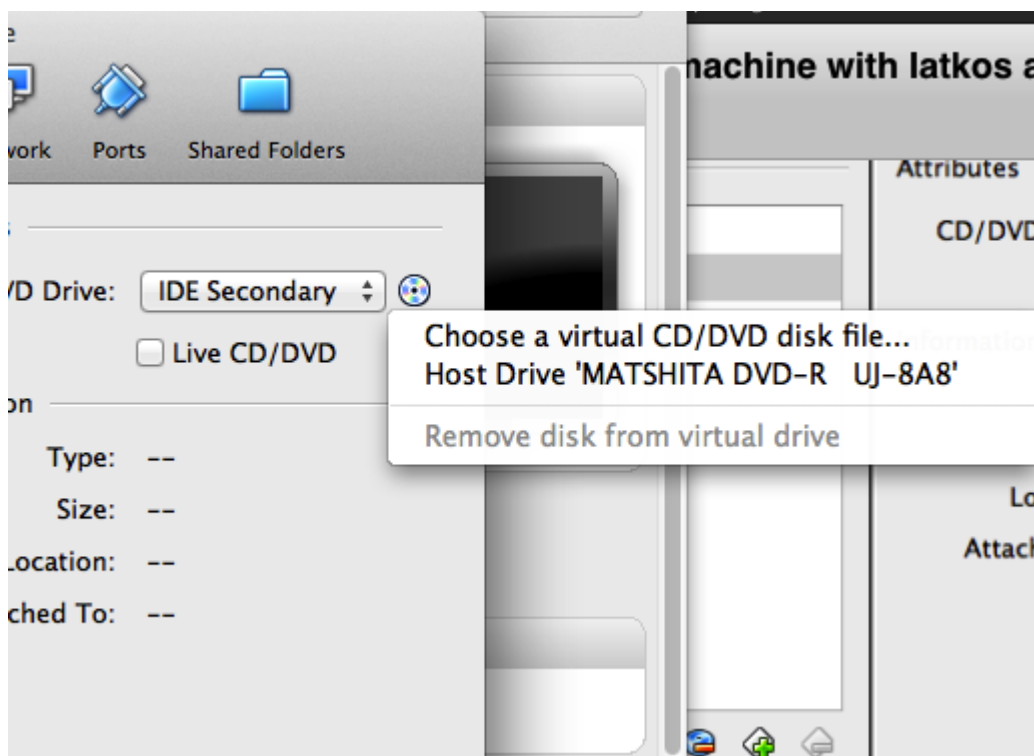
- (1) Select the location for the Data Disk.
 - (2) Give the disk a name.
 - (3) Select the right size for the data disk.
 - (4) Click Continue.
- Check the summary and click CREATE.

Configure the Virtual Machine.



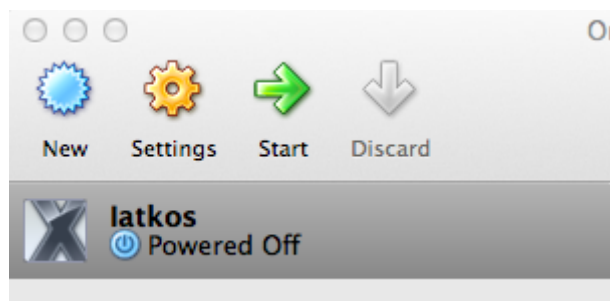
Next up we are going to link up the DVD to our virtual machine.
Select the CD icon (1) and click on the little cd rom. (2)

Configure the Virtual Machine.



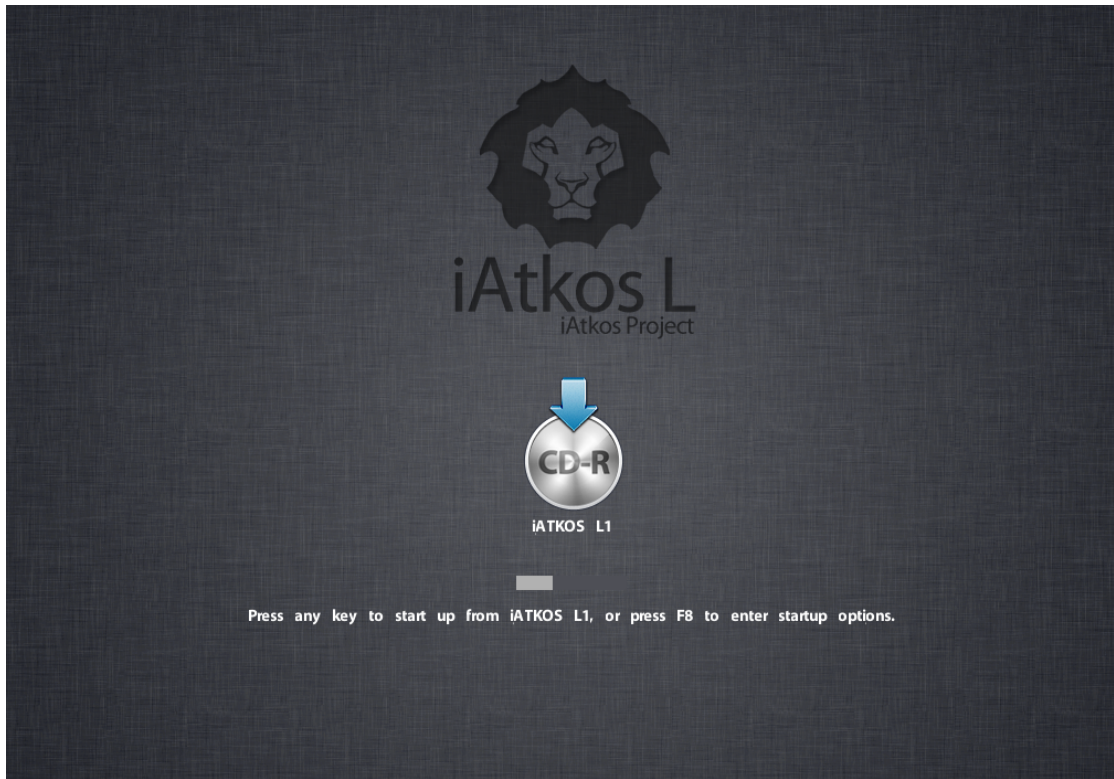
Choose your DVD rom drive where you have inserted the IATKOS DVD.
Close the screen by clicking OK.

Launch the Virtual Machine.



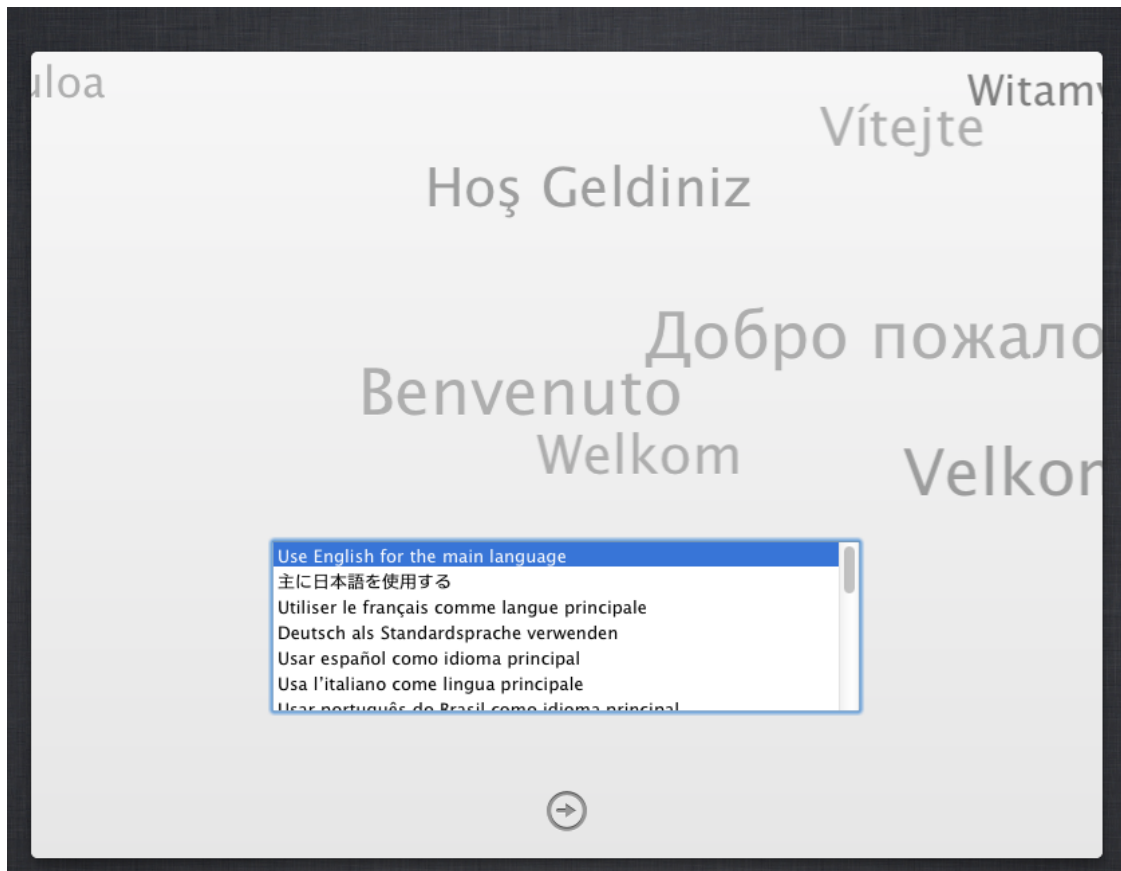
Next up select the Virtual Machine and click START.

Install your IATKOS distribution.



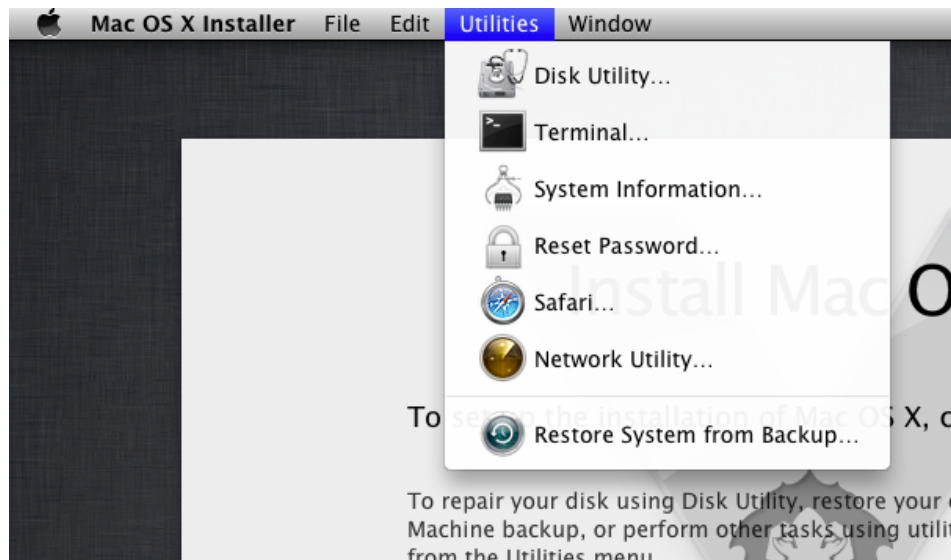
Press any key to start up the distro.

Install your latkos distribution.



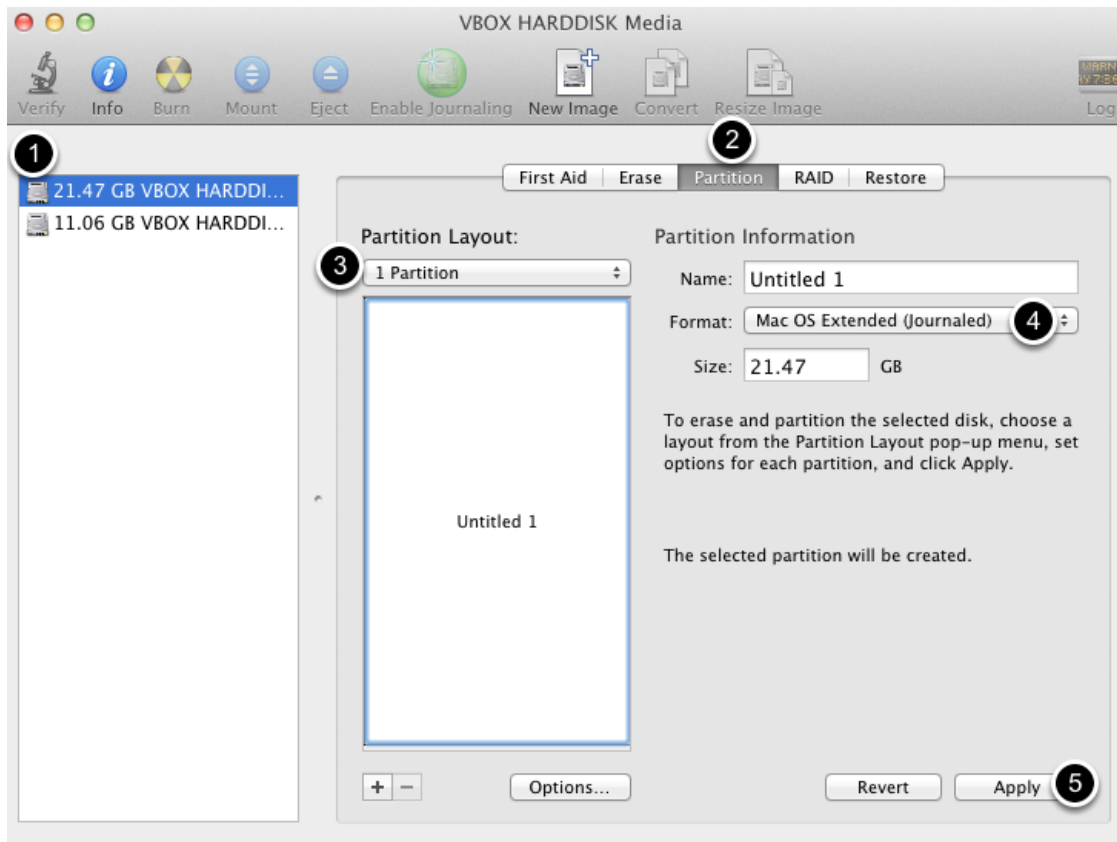
Choose your language.

Install your latkos distribution.



Before you set up the distribution you need to format the system drive.
To do this select UTILITIES - Disk utility.

Install your latkos Distribution.



- (1) Select the system partition.
 - (2) Click the PARTITION button.
 - (3) Pull down the menu to the option "1 partition"
 - (4) Check if the format is correct.
 - (5) Click Apply.
- Click "Partition" when the popup comes up.
When the partitioning is done, close the window.

Install your iatkos distribution.



Click Continue on the main installation screen.

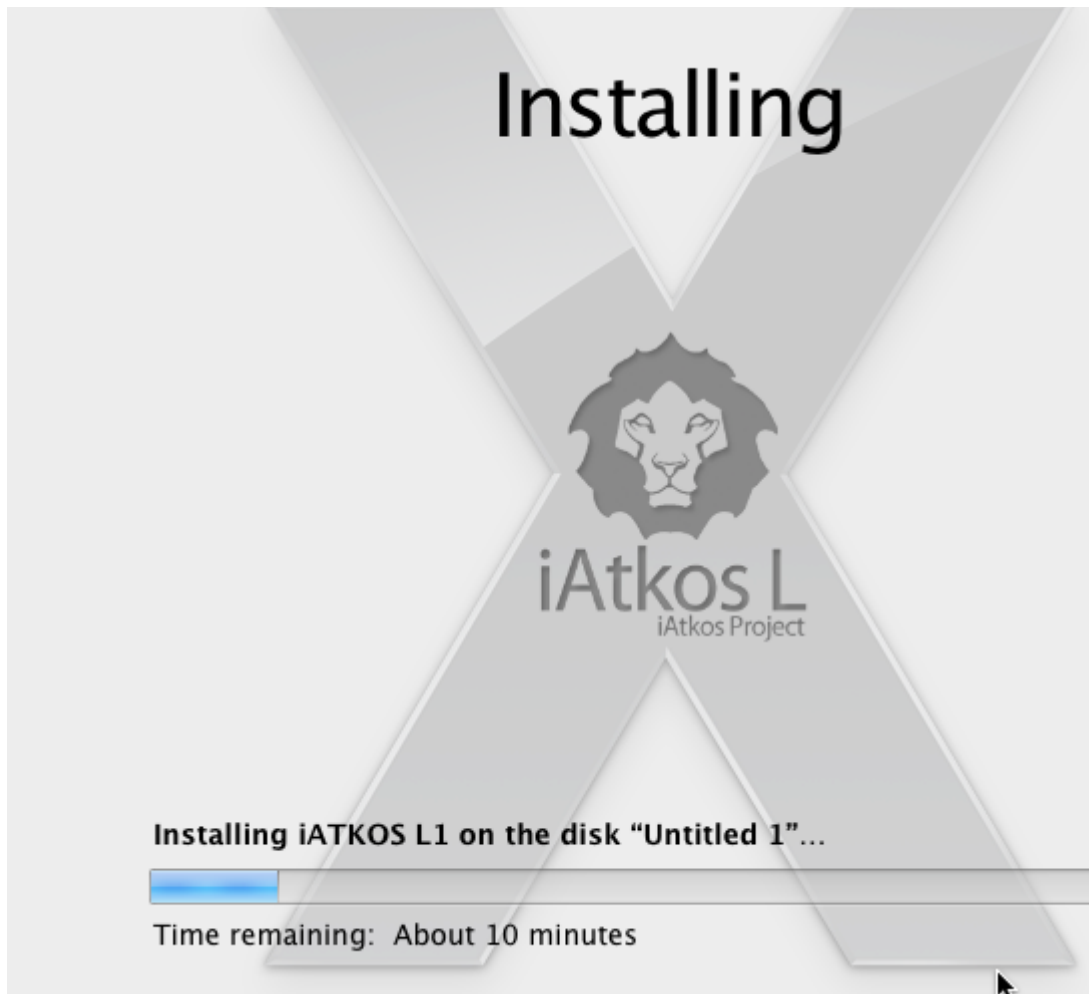
Click AGREE on the Software License agreement screen.

Install your Iatkos distribution.



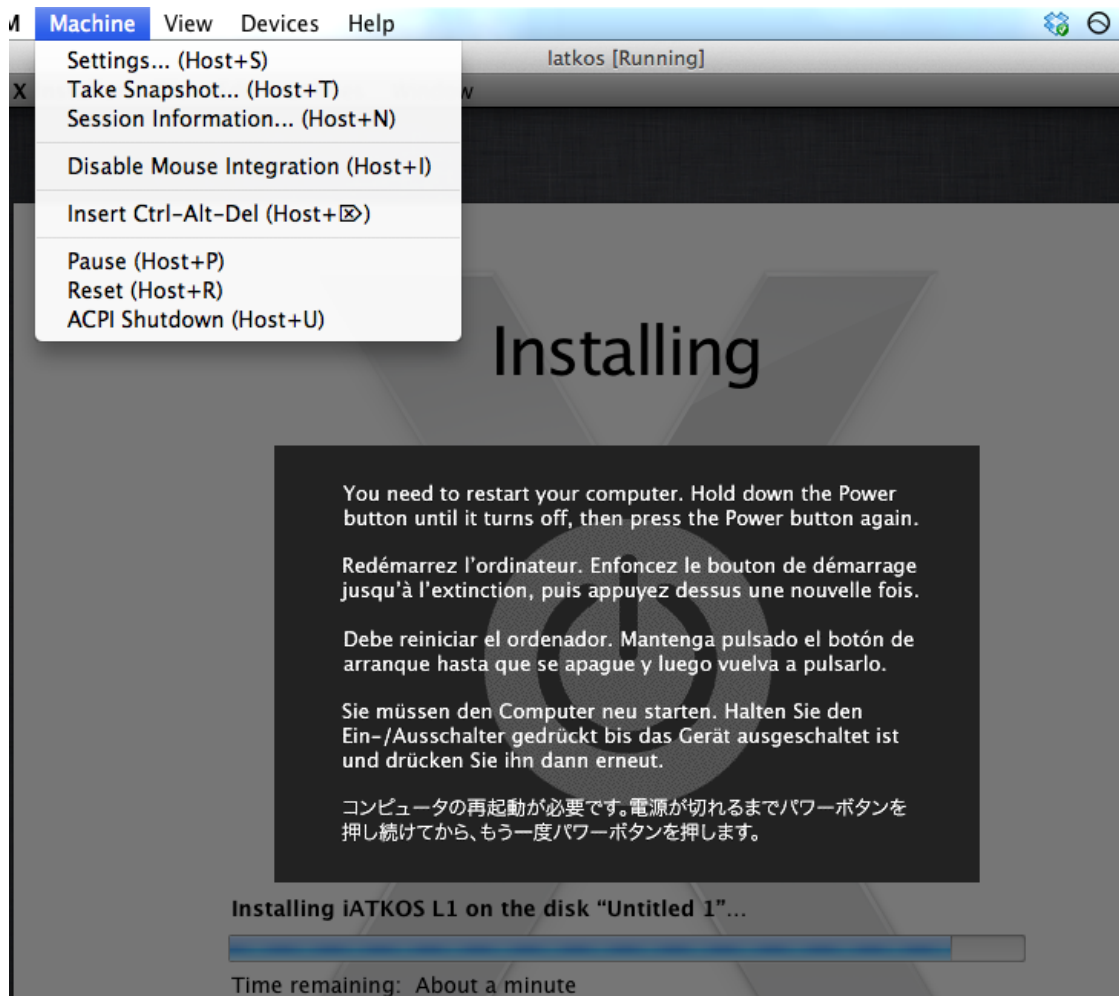
Select the (virtual) disk where you would like to install on.
Click INSTALL.

Install your iatkos distribution.



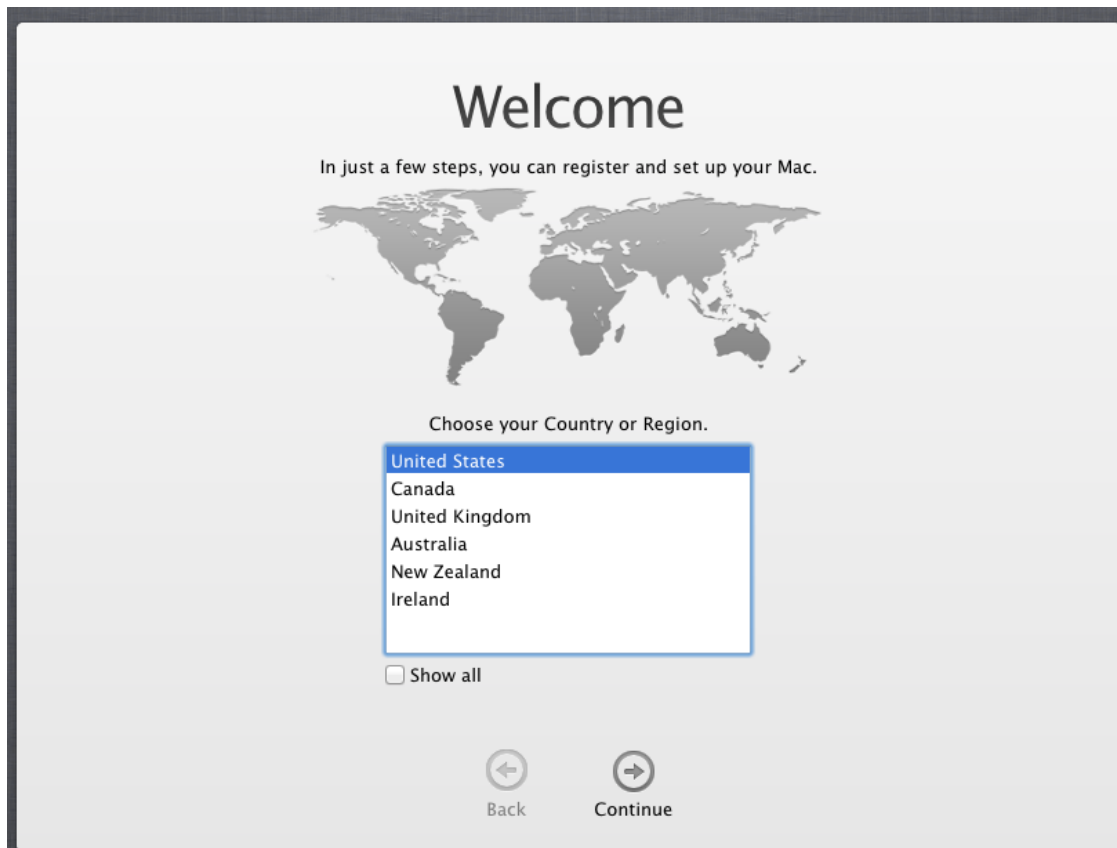
Have Coffee or something...

Installing your latkos distribution.

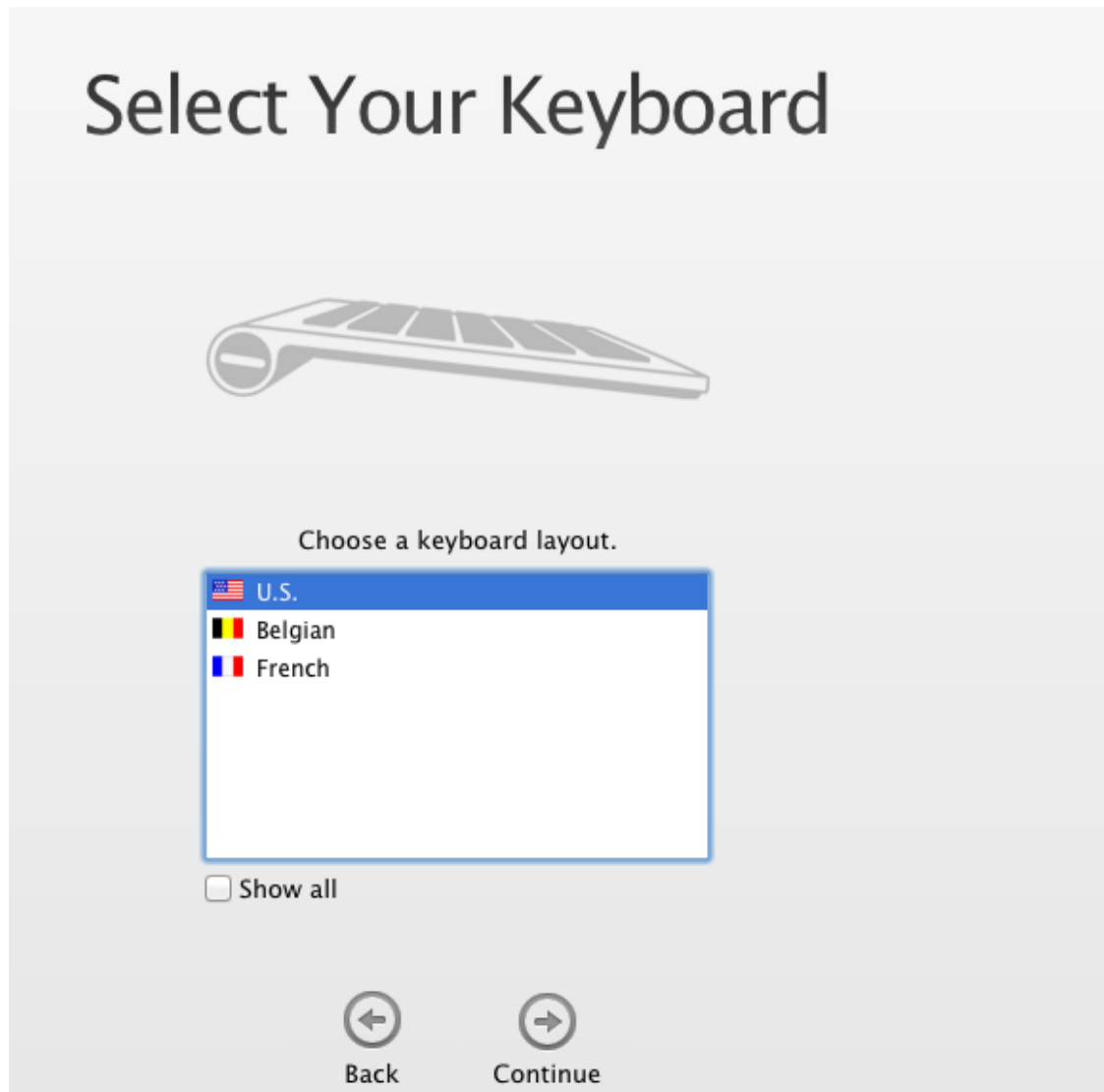


You might have a kernell panic , but that is ok . Just reboot the virtual machine.
! As the machine is rebooting REMOVE the dvd rom from the drive.

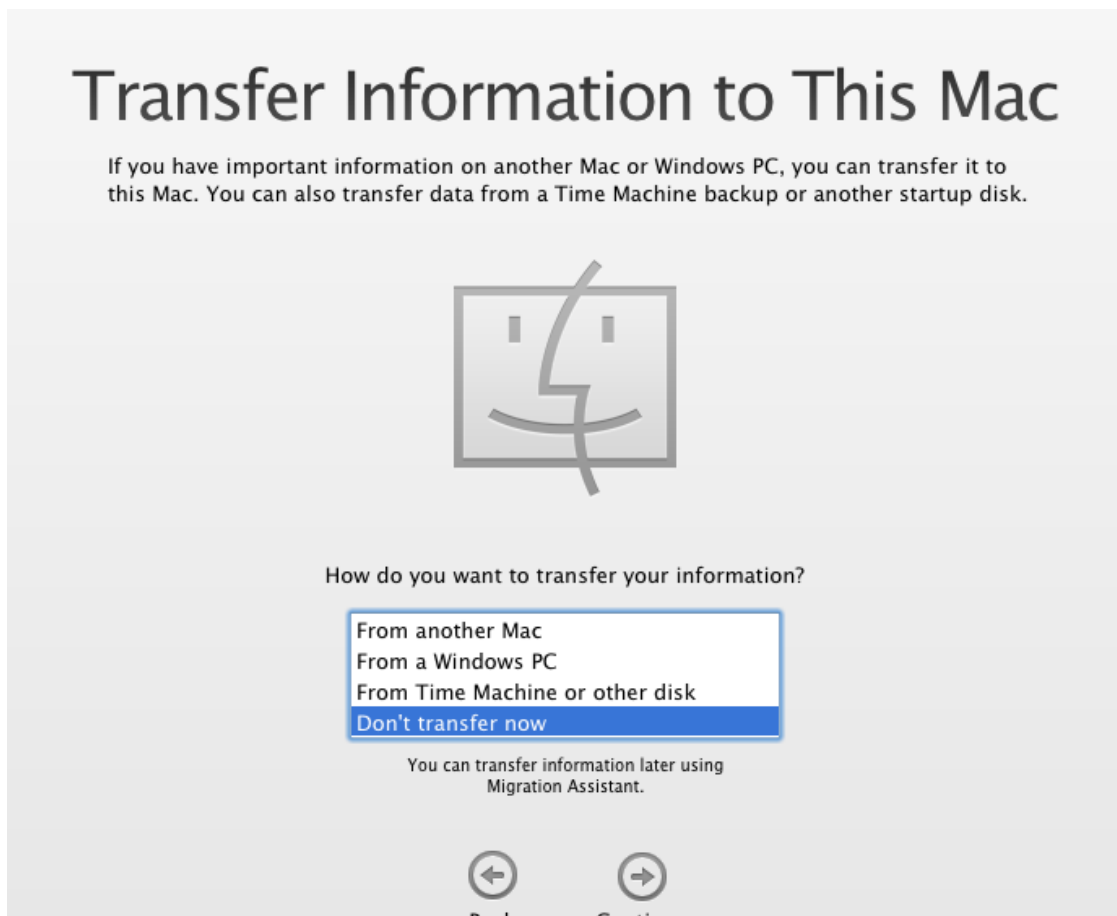
Installing your latkos Distribution.



After reboot the Lion configuration menu will appear.
Choose your country



Choose your keyboard.



Choose if you want to transfer your data from another mac.




Installing your latkos distribution.

Registration Information

Enter your personal information. The information is used to register your Apple product, create your user account, set up your information in Address Book, and set up your Mail account.

First Name	Postal Code	City Sector or District
<input type="text"/>	<input type="text"/>	<input type="text"/>
Last Name	City	
<input type="text"/>	<input type="text"/>	
Company or School	State or Province	
<input type="text"/>	<input type="text"/>	
Address	Phone Number	
<input type="text"/>	<input type="text"/>	
<input type="text"/>	Email Address (if you have one)	
	<input type="text"/>	

To learn how Apple safeguards your personal information, review the Apple Customer Privacy Policy.

 Privacy Policy Back Continue

Enter your apple.com id if you have one , or just hit continue (you don't have to have an apple id)
If you don't want to fill in the registration form , just hit Continue.

Create Your Computer Account

Enter a name and password to create your computer account. You need this password to administer your computer, change settings, and install software.

Full Name:

Account Name:
This will be used as the name for your home folder and can't be changed.

Password:

Verify:

☐ Require password when logging in.

Password Hint:

Enter a hint to help you remember your password. Anyone can see the hint, so choose a hint that won't make it easy to guess your password.

Back Continue


Enter your desired login information.

UNCHECK "require password to log in" if you want to use it as a virtual server.

Installing your latkos distribution.

Select Time Zone

To select a time zone, click the map near your location and choose a city from the Closest City menu.



Geonames.org

Time Zone: Central European Time

Closest City:

Enter your correct timezone.

Don't Forget to Register

Click "Start Using Lion" to end the setup process and begin using your computer.

To send your registration later, double-click the Send Registration file in your home folder.

If you want to register several computers at the same time, go to www.apple.com/register.

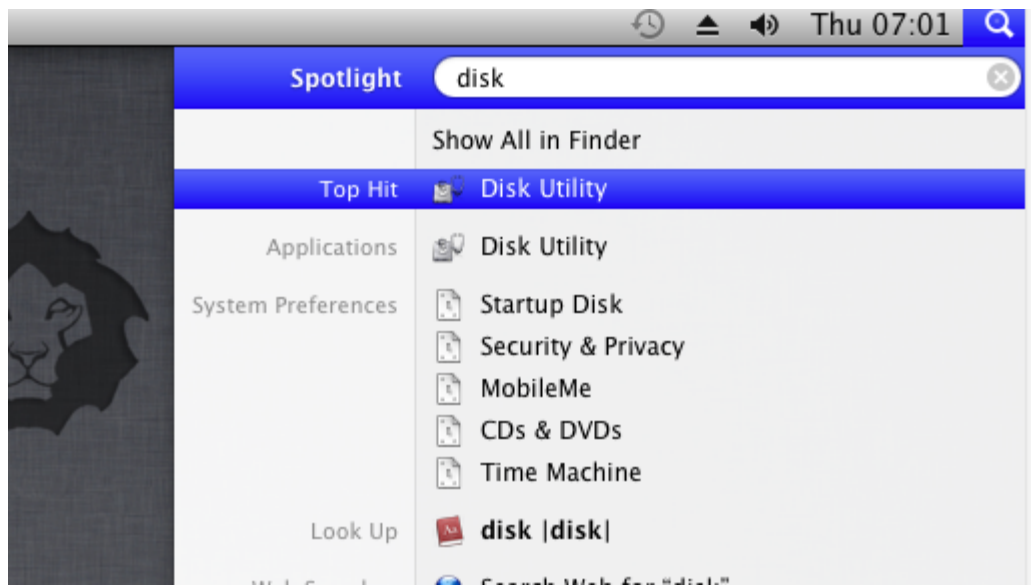
The warranty for your Apple product does not require you to register the product.



Start Using Lion

Start using Lion baby !

Configuring your latkos distribution.

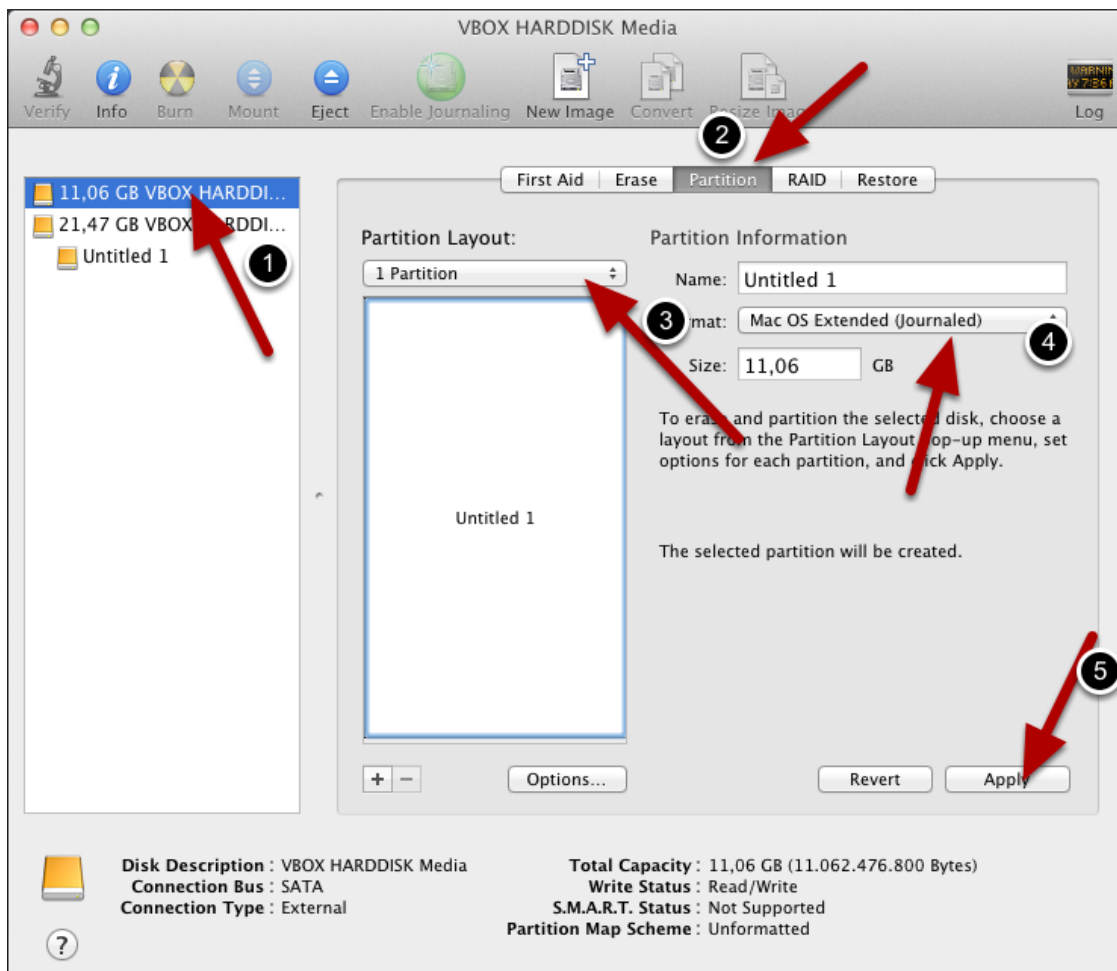


Because we also added a Data partition (and did not format it) Lion may notice that there is a disk that is not initialised.

In order to format our data drive click on "Initialise"

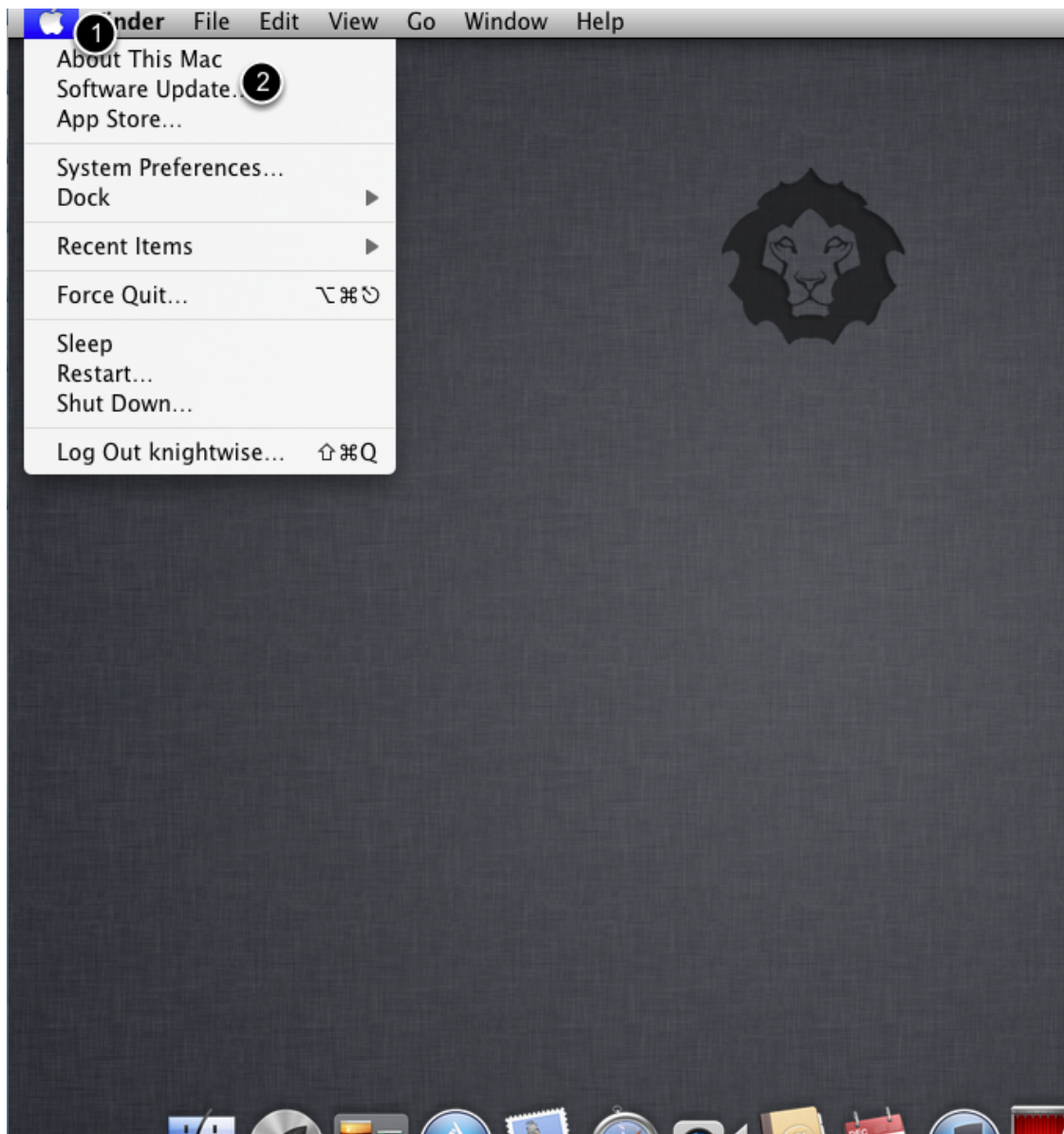
If not : Go to spotlight (top right corner) and enter DISK , you will find the application DISK UTILITY, Click on it.

Installing your latkos distribution.



Format the data partition accordingly.

Configuring your latkos distribution.



Close Disk utility and you have a working system !

(I would recommend to do all of the updates first) and then .. have fun ! (1) (2)